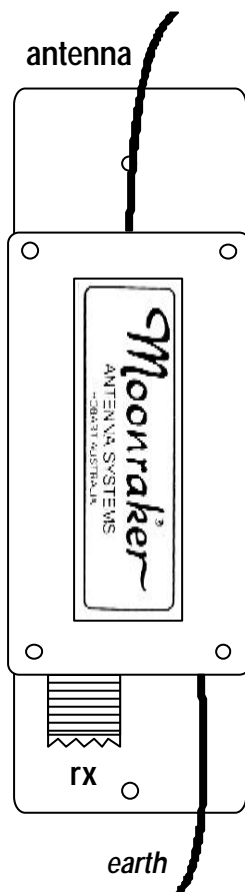


MOONRAKER

Type MRA RX-Transformer

Matching transformer for receiving antennas

The MRA RX-Transformer is a wideband (0.3-30 MHz) impedance transformer, designed for matching either whip or long wire antennas to the coaxial cable and receiver. It is ideally suited for 7 metre (23ft) whips (types 23B/3, 23B/3C and 23H/S) and long wire antennas.



The transformer converts the widely varying antenna impedance to a constant 50ohms, permitting long or variable lengths of coaxial cable to be used between the antenna and the receiver. Low loss cable is recommended for lengths exceeding 40 metres (130 feet).

It is designed primarily for shipboard use, but is equally suitable for land based systems, to allow location of receiving antennas to be situated as far as practically possible from transmitting antennas or other high noise areas, such as power lines.

The antenna is DC grounded via the transformer to prevent static build-up and the connecting cable is DC isolated to prevent electrolysis. In addition a gas discharge device is also provided to allow for nearby lightning strikes.

Electrical connection to the antenna is by way of insulated cable to the antenna feedpoint and an earth cable connected to ground. Mechanical mounting is by way of two screws or small bolts through the holes in the PVC mounting plate. The unit should be fixed near to the feedpoint of the antenna. The transformer components are housed in an insulated fully marinised PVC box designed to withstand the harsh marine conditions. As a further guard against water ingress, the components are completely encapsulated in a silicone material.

Units are also available to meet military specifications, being housed in an additional zincanneal box, NATA tested to IP66 standard, and finished in pebble grey. Single outlet (type RXT1N) and dual outlet (type RXT2N) models with cable glands to internal coaxial connectors.

Specifications

Dimensions	Transformer Housing: 112 x 62 x 31 mm (4.4 x 2.5 x 1.2 in) military types: 300 x 150 x 120 mm (11.8 x 5.9 x 4.7 in); Mounting Plate 182 x 57 mm (7.2 x 2.2 in)
Frequency Range	0.28-30 MHz
Bandwidth	Full
Impedance	50Ω nominal
Antenna Types	7 metre(23ft) whips or long wire antennas
Mountings	Via a PVC plate and screws (not provided); distance between mounting holes 143mm (5.6 in), hole diameter 5mm (3/16 in)
Connection	UHF SO239 (in base of unit), allowing direct 50 ohm coaxial feed to receiver; military types: N type connector
Packed Weight	0.26 kg (0.57 lbs)

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Specifications subject to change 10/99

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